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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/131,051	08/07/98	JAMIESON	D NTL-3.2.035/

RICHARD M LEHRER
COBRIN & GITTES
750 LEXINGTON AVENUE
21ST FLOOR
NEW YORK NY 10022

TM02/0507

EXAMINER

FIELDS, K

ART UNIT

PAPER NUMBER

2153

DATE MAILED:

05/07/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.

09/131,051

Applicant(s)

Jamieson et al

Examiner

Kenneth Fields

Art Unit

2153



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Feb 20, 2001
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above, claim(s) 11-14 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3 and 5-9 is/are rejected.
- 7) ☒ Claim(s) 4 and 10 is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☐ All b) ☐ Some* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- *See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) ☐ Notice of References Cited (PTO-892)
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____
- 18) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 19) ☐ Notice of Informal Patent Application (PTO-152)
- 20) ☐ Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-3 and 5-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kawafuji et al (US 5,999,536).

Kawafuji discloses a virtual private network which enables private communications, over a network, between at least two private networks comprising: a first router coupled to the network and configured to dynamically distribute first router VPN information across the network, wherein the first router VPN information includes a VPN identifier which is assigned to said first router (col. 9, line 49 - col. 10, line 24); a second router coupled to the network and configured to dynamically distribute second router VPN information across the network; wherein said second router VPN information includes a VPN identifier which is assigned to said second router (col. 9, line 49 - col. 10, line 24); and wherein said VPN identifier assigned to said first router is the same as said VPN identifier assigned to said second router (the identifiers will be the same when packets are being distributed between terminals on the same VPN). Kawafuji further discloses a first private network adaption device (terminal) which is selectively coupled to the first router and

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a second private network device (terminal) which is selectively coupled to the second router, wherein the private network adaptation devices may communicate with one another.

Kawafuji does not disclose a Multiprotocol Label Switched (MPLS) type network wherein routers establish switched paths between one another. Multiprotocol Label Switching is a standards-approved technology for speeding up network traffic flow and making it easier to manage. MPLS involves setting up a specific path for a given sequence of packets, identified by a label put in each packet, thus saving the time needed for a router to look up the address to the next node to forward the packet to. The routers inherently establish switched paths between one another. MPLS is called multiprotocol because it works with IP, ATM, and frame relay network protocols. It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the communication system as disclosed by Kawafuji upon a Multiprotocol Label Switched network, thereby providing a communication system which speeds up network traffic, makes it easier to manage and has the ability to utilize a variety of communication protocols.

Kawafuji discloses a virtual private network which enables communications over a network but is silent regarding label switched paths which comprise multipoint-to-point paths or multipoint-to-multipoint paths. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the network communication system as disclosed by Kawafuji with multiple multipoint-to-point paths as well as multipoint-to-multipoint paths,

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thereby providing the communication system of Kawafuji the ability to transfer data packets utilizing unicast as well as multicast transmissions.

Response to Arguments

3. Applicant's arguments regarding "label switched paths" have been found persuasive. However, Applicant's arguments regarding "dynamic" distribution of VPN information have not been found persuasive. Applicant states that Kawafuji does not disclose "dynamically distributing VPN information from a first router to a second router." Examiner maintains that Kawafuji discloses this feature. Kawafuji states at column 9, lines 59-63:

"The packet whose MAC header portion has been updated by the second routing section 30 is sent to a terminal apparatus or another router through an interface section of the switching hub, together with the ID number of the corresponding VLAN and the port number."

This language is interpreted by the examiner to meet the claim limitation of "dynamically" distributing VPN information.

Allowable Subject Matter

4. Claims 4 and 10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Fields whose telephone number is (703) 308-4954.

The fax phone number for this art unit is (703) 305-7201. Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the technology center receptionist whose telephone number is (703) 305-3900.

KF

Kenneth Fields
April 30, 2001



GLENTON B. BURGESS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100